



U.S. Department of Energy
**Energy Efficiency
and Renewable Energy**

Bringing you a prosperous future where energy
is clean, abundant, reliable, and affordable



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The  **Solution
Network**

Energy 2005

Energy Legislation and Federal Mandates



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Overview



Energy Policy Act of 2005

- Energy Reduction Goals
- Facility Metering
- Energy Efficient Products
- Energy Savings Performance Contracts (ESPC)
- Energy Efficient Buildings
- Renewable Energy
- Hydrogen Fuel Cells



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Federal Energy Reduction



New Energy Reduction Goals

- Section 102
- FY 2003 Baseline
- 2% per year through FY 2015
- 20% by FY 2015
- Also includes an energy savings retention provision for Federal agencies (DoD already had this authority)



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Federal Facility Metering



Energy Use Measurement and Accountability

- Section 103
- October 1, 2012 – Federal facilities metered
- 180 days – DOE establish guidelines that consider
 - Cost of metering and O&M
 - Anticipated energy and cost savings
 - M&V protocols
- 6 months following guidance – Agencies submit implementation plans to DOE



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Energy Efficient Products



Federal Procurement

- Section 104
- Head of each Federal agency shall procure
 - Energy Star products
 - FEMP-designated products
- Exemptions if
 - Not available
 - Not cost effective



Energy Savings Performance Contracts



ESPC

- Section 105
- Authority extended until 2016
- No caps, limitations, or restrictions
- All agencies



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Energy Efficient Buildings



Federal Building Performance Standards

- Section 109
- New Federal buildings will incorporate (if life cycle cost effective)
 - Energy efficiency 30% below ASHRAE
 - Sustainable Design Principles
- Report accompanying annual budget



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Renewable Energy



Federal Purchase Requirement

- Section 203
- 3% from 2007 to 2009
- 5% from 2010 to 2012
- 7.5% in 2013 and beyond
- To the extent economically feasible and technically practical
- Double credit for on-site generation



DoD Energy Policy

Initiatives Actions Strategies Goals Grand Challenges

Mission

- Issue guidance
- Demonstrate benefit of program
- High %age of privatization
- Technology (better data)
- Right people involved

Implement appropriate Distributive Energy Resources

- Embrace Sustainable Design
- LCC Analysis
- W B Design Guide

- Enhance recognition
- Showcase facilities
- Awards
- Training

- Establish metering policy
- Benchmarking
- Accuracy in accounting/billing
- Energy Star Buildings

- Promote renewable energy
- Purchases
- Self-generated

- Pursue energy funding
- Congressional appropriations
- Private sector investments

- Increase efficiency products use
- Energy Star
- Alternative fuels

Vision

- Align Services with working group/guidance
- Ensure proficiency in carrying out program
- Execute program efficiently and effectively

Implement conservation measures and reduce cost

Achieve/increase energy awareness

Expand use of Renewable energy

- Ensure DoD standards
- Focus on going from utility privatization to utility management

Improve Energy Efficiency

- Development
- Investment

Successfully Complete utility privatization by 2005

Bring all systems to C2 level

Sound Stewardship In mgt of systems

Reduce energy consumption

Reduce greenhouse gases

Expand use of renewable energy

Modernize Infrastructure

Increase utility and energy conservation and demand reduction

Improve energy flexibility

Ensure that the DoD utility infrastructure is secure, safe, reliable and efficient, that energy and Water commodities are procured effectively and efficiently, and that the components maximize energy and water conservation efforts.

100 % reliability of utility services to the Warfighter



Hydrogen Fuel Cells



Inter Agency Task Force

- Section 806
- Authority given to existing DOE-led task force
- Mandate covers
 - Transportation/Vehicles
 - Fuel Infrastructure
 - Stationary Power and Distributed Generation



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